

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street
Sacramento, California 95814

Main website: www.energy.ca.gov



Revised Staff Workshop

A New Approach to Develop, Support and Update Building Energy Analysis Software

The California Energy Commission staff will conduct a workshop to discuss future options for developing, supporting and updating energy analysis software used for public goods programs.

SEPTEMBER 23, 2010

9 am – 12 noon Software for Residential Buildings

1 pm – 4 pm Software for Nonresidential Buildings

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

First Floor, Hearing Room A (morning)

State Archives Building

1500 11th Street

First Floor Multipurpose Room

~~Second Floor, 2 South Conference Room A~~ (afternoon)

Sacramento, California

(Wheelchair Accessible)

Remote Attendance and Availability of Documents

Internet Webcast - Presentations and audio from the meeting will be broadcast via our WebEx web meeting service. For details on how to participate via WebEx, please see the "Remote Attendance" section toward the end of this notice.

Purpose

The Energy Commission staff is very motivated to work with government agencies, utilities, industry partners and other members of the public to establish a new collaborative development environment to create, update and support public goods building energy analysis software. This energy analysis software is envisioned to meet several public goods needs, including but not limited to:

- The analysis of new measures for possible inclusion in updates to the Building Energy Efficiency Standards,

- Performance-based compliance with these Standards,
- Modeling relative energy performance for building energy rating systems,
- Design analysis to support utility new construction incentive programs and/or local government green building or energy ordinances.

The Energy Commission staff would like to explore potential vehicles for all aspects of software development, maintenance, documentation and deployment. Potential vehicles include, but are not limited to, a third party organization to administer a consortium, collaborative, or other not for profit entity that would have a governing board composed of funding partners, of which the Energy Commission would be one. The minimum objectives of this effort are to:

- Develop and maintain a library of publicly available source code and executable code for building energy analysis software for the purposes of supporting public goods energy efficiency programs (e.g., codes & standards, incentive programs, rating systems);
- Qualify and/or certify software programmers and other professionals to provide technical support services to the consortium in the areas of software development, documentation and training;
- Develop licensing arrangements for entities to access the source and/or executable code, with the intent to provide all software in the consortium library for free;
- Develop and implement a workforce development component that encourages student participation in source code development and implementation for public goods purposes.

The Energy Commission staff proposes to discuss at the workshop options for software development, including the pros and cons of having a single consortium or other entity for developing both residential and nonresidential software, versus separate entities for each.

Background

As early as October, 2010, the Energy Commission will be soliciting technical support services to provide ongoing support to the High Performance Buildings and Standards Development Office. Two of the principal work activities to be provided through these technical support contracts are the completion of the 2011 compliance software tools for both the Residential and Nonresidential Building Standards. The Energy Commission plans to complete these software tools within the newly proposed collaborative development environment to be discussed at the Staff Workshop.

The Energy Commission has been working informally with California investor-owned utilities toward the goal of developing publicly licensed software over the last eighteen months for the 2011 residential standards development and compliance software. Similarly, the Energy Commission has been working informally with a national laboratory over the last two years to develop publicly licensed software to support the

2011 nonresidential standards compliance software. Energy Commission staff plan to summarize these ongoing efforts at the Staff Workshop and discuss how future efforts could build upon them.

The Energy Commission has also been very involved with nascent green workforce development efforts across the state over the last two years, and staff believes that this area of energy analysis software is an area of workforce development that has not yet been adequately resourced. The pool of qualified and experienced software developers for energy analysis in buildings is much too small. The Energy Commission should make every effort to partner with other education and training entities to expand these technical resources and show young energy modelers that there is a career path available in California for them.

Public Participation

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission activities. If you want information on how to participate in this forum, please contact the Public Adviser's Office at (916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at [PublicAdviser@energy.state.ca.us] If you have a disability and require assistance to participate, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

Please direct all news media inquiries to the Media and Public Communications Office at (916) 654-4989, or by e-mail at [mediaoffice@energy.state.ca.us].

If you have questions on the technical subject matter of this meeting, please call Martha Brook at (916) 654-4086.

Remote Attendance

You can participate in this meeting through WebEx, the Energy Commission's online meeting service. Presentations will appear on your computer screen, and you listen to the audio via your telephone. Please be aware that the meeting's WebEx audio and on-screen activity may be recorded.

Computer Log-on with Telephone Audio:

1. Please go to <https://energy.webex.com> and enter the unique meeting number:
921 619 379
2. When prompted, enter your name other information as directed and the meeting password: **cec@1516**
3. After you log-in, a prompt will ask for your phone number. If you wish to have WebEx call you back, enter your phone number. This will put your name on the WebEx log so that we know who is connected and provide a record of your

participating by WebEx.

If you do not wish to do that, click cancel, and go to step 4. Or, if your company use a switchboard-type of phone system where your line is an extension, click cancel and go to step 4.

4. If you do not want WebEx to call you back, then call 1-866-469-3239 (toll-free in the U.S. and Canada). When prompted, enter the meeting number above and your unique Attendee ID number, which is listed in the top left area of your screen after you login via computer. International callers can dial in using the "Show all global call-in numbers" link (also in the top left area).

Telephone Only (No Computer Access):

1. Call 1-866-469-3239 (toll-free in the U.S. and Canada) and when prompted enter the unique meeting number above. International callers can select their number from <https://energy.webex.com/energy/globalcallin.php>

If you have difficulty joining the meeting, please call the WebEx Technical Support number at 1-866-229-3239.

Date: September 21, 2010

Mail Lists: (efficiency)